

2211 W. Meadowview Road, Suite 101 Greensboro, NC 27407 tel: 336/ 323-0092

fax: 336/ 323-0093 www.JoyceEngineering.com

March 19, 2013

Ms. Jackie Drummond North Carolina Department of Environment and Natural Resources Division of Waste Management, Solid Waste Section 1646 Mail Service Center Raleigh, North Carolina 27699-1646

RE: Landfill Gas Monitoring Report

LFG Monitoring - March Event of 2013

Town of Kernersville Closed Landfill, Permit No. 34-04

JOYCE Project No. 838.1201.12, Task No. 03

## Dear Ms. Drummond:

Please find attached a Landfill Gas Monitoring Log and an EMRF for a monitoring event that occurred on March 19, 2013 at the Closed Town of Kernersville Landfill (Permit number 34-04). Methane monitoring for this event was conducted as proposed by JOYCE on behalf of the Town of Kernersville in accordance with approved *Landfill Gas Monitoring Plan*—dated July 17, 2012. Methane was detected in gas monitoring probes GW-1, GW-2R, GW-3 and GW-8 above the LEL during this monitoring event. If you have any further questions, please contact me at (336) 323-0092. Thank you.

Sincerely,

JOYCE ENGINEERING

Adam Cox

Field Consultant

Copy: Thad Buck, Town of Kernersville

ENR USE ONLY: Paper Report Electronic Data - Email CD (data loaded: Yes / No )	Doc/Event #:			
C DENR ivision of Waste Management - Solid Waste	Environmental Monitoring Reporting Form			
otice: This form and any information attached to it are "Public Records" as defined in NC General St	tatute 132-1. As such, these documents are	<u> </u>		
vailable for inspection and examination by any person upon request (NC General Statute 132-6).				
structions:				
<ul> <li>Prepare one form for each individually monitored unit.</li> <li>Please type or print legibly.</li> </ul>				
Attach a notification table with values that attain or exceed NC 2L groundwater standards or	r NC 2B surface water standards. The notifi	icatio		
must include a preliminary analysis of the cause and significance of each value. (e.g. naturall	lly occurring, off-site source, pre-existing			
condition, etc.).  Attach a notification table of any groundwater or surface water values that equal or exceed the	he reporting limits.			
Attach a notification table of any methane gas values that attain or exceed explosive gas lev	vels. This includes any structures on or nea	arby th		
facility (NCAC 13B, 1629 (4)(a)(i)				
Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Co     Send the Original Sending Content Religion NC 27599 1646	compliance Unit, NCDENR-DVVIVI, Solid VVas	સહ		
Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.		contraction and a		
olid Waste Monitoring Data Submittal Information		Santian.		
ame of entity submitting data (laboratory, consultant, facility owner):				
yce Engineering				
ontact for questions about data formatting. Include data preparer's name, telephone number a	and E-mail address:			
Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336)-323-0092				
E-mail: vburbach@joyceengineering.com				
·	NO LandSU Dulan Actual compling dates	/o a		
	NC Landfill Rule: Actual sampling dates ( .0500 or .1600) October 20-24, 2006)	(e.y.,		
Freeman Road	0500   March 19, 2013			
own of Kernersville Landfill Kernersville, NC 27284	0300   Iviaich 19, 2013			
Environmental Status: (Check all that apply)				
Initial/Background Monitoring   Detection Monitoring   Assessment Mon	nitoring Corrective Action			
Type of data submitted: (Check all that apply)				
Groundwater monitoring data from monitoring wells X Methane gas monitor	oring data			
Groundwater monitoring data from private water supply wells Corrective action dat	ata (specify)			
Leachate monitoring data  Other(specify)				
Surface water monitoring data		·		
Notification attached?				
No. No groundwater or surface water standards were exceeded. Yes, a notification of values exceeding a groundwater or surface water standard is attached.	It includes a list of groundwater and surface	e wate		
monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water	r standard or NC Solid Waste GWPS and			
preliminary analysis of the cause and significance of any concentration.		nnla		
Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes values and explosive methane gas limits.	s the methane monitoring points, dates, sain	uhie		
values and explosive methane gas innic.		are arread		
Certification				
To the best of my knowledge, the information reported and statements made on this data su Furthermore, I have attached complete notification of any sampling values meeting or exceed	ibmittal and attachments are true and co eding groundwater standards or explosiv	/e da:		
evels, and a preliminary analysis of the cause and significance of concentrations exceeding (	groundwater standards. I am aware that	ther		
are significant penalties for making any false statement, representation, or certification includir	ng the possibility of a fine and imprisonn	nent.		
G. Van Ness Burbach, Ph.D., P.G. Technical Consultant (336)-323-				
acility Representative Name (Print) Title (Area Code	e) Telephone Number	Saal		
9. Van/hy back 3/19/13	ATIX NO LICENSAMITIMESSIONAL GEOlogist	oeai		
ignature Date	The Office of the State of the			
Alle annual	Affix NC Licensed Grossional Geologist			
211 W. Meadowview Rd. Ste. 101, Greensboro, NC 27407	SEAL SEAL			
acility Representative Address	. 1349 I±3			

C-0782

NC PE Firm License Number (if applicable effective May 1, 2009)

## **Landfill Gas Monitoring Data Form**

Facility Name: Town of Kernersville Date of Sampling: March 19, 2013

Gas Monitor Type & Serial Number: GEM 2000; GM05194

Field Calibration Date & Time: General Weather Conditions:

3/19/2013 11:10 Sunny, 50's°F

Permit Number:

34-04

Personnel: A. Cox

Calibration Date: March 1

Calibration Date: March 14, 2013
Calibration Gas Type: 50% CH4, exp. 5-2013

Barometer: 30.25 In-Hg

						GW-2R   11	GW-1 11			Location or ID Ti
1157	122	112	[34	[4]	[47]	1118	115			Time
0.140	0.050	0.010	0.080	0.000	0.070	0.220	0.030	(In-Wg)	Pressure	Probe
¥	¥	Y	Y	Y	×	Υ'	Ϋ́	purged	sample tube	Instr.
30	30	30	30	30	30	30	30	(sec.)	Pumped	Time
1116	0	0	0	0	228	1242	770		%LEL	Initial
1116	0	0	0	0	228	1242	770		%LEL	Stabilized
55.8	0	0	0	0	11.4	62.1	38.5		(%Vol)	СН4
						replacement probe for GW-2				Notes